

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-38 (Canceled)

39. (Currently Amended) A process for the preparation of a low-viscosity polyfunctional isocyanate composition containing (a) at least one isocyanate trimer containing an isocyanurate unit, or a trimer containing a biuret unit or mixtures thereof, and (b) at least one isocyanate dimer containing a uretidinedione unit, from a starting reaction medium containing at least one isocyanate monomer, in which the isocyanate groups are borne by sp^3 carbon atoms, and optionally from other monomers, this process comprising the following steps:

i) heating the starting reaction medium, in the absence of dimerization catalyst, to a temperature of at least 80°C, and of not more than 200°C, for a period of less than 24 hours to obtain a reaction product;

ii) reacting the reaction product from step i) containing isocyanate dimer and unreacted monomers in the presence of a (cyclo)trimerization catalyst, under (cyclo)trimerization conditions to obtain an isocyanurate ~~trimer~~ reaction product containing (a) at least one isocyanate trimer containing an isocyanurate unit, or a trimer containing a biuret unit or mixtures thereof, and (b) at least one isocyanate dimer containing a uretidinedione unit;

iii) removing unreacted monomers from the reaction product from step ii);
and

iv) isolating the low-viscosity polyfunctional isocyanate composition.

40. (Currently Amended) A process for the preparation of a low-viscosity polyfunctional isocyanate composition containing (a) at least one isocyanate trimer containing an isocyanurate unit, or trimer containing a biuret unit or mixtures thereof,

and (b) at least one isocyanate dimer containing a uretidinedione unit, from a starting reaction medium containing at least one isocyanate monomer, in which the isocyanate groups are borne by sp^3 carbon atoms, and optionally from other monomers, this process comprising the following steps:

- i) heating the starting reaction medium, in the absence of dimerization catalyst, to a temperature of at least 120°C, and of not more than 170°C, for a period of less than 5 hours to obtain a reaction product;
 - ii) reacting the reaction product from step i) containing isocyanate dimer and unreacted monomers in the presence of a (cyclo)trimerization catalyst, under (cyclo)trimerization conditions to obtain an isocyanurate ~~trimer~~ reaction product containing (a) at least one isocyanate trimer containing an isocyanurate unit, or trimer containing a biuret unit or mixtures thereof, and (b) at least one isocyanate dimer containing a uretidinedione unit;
 - iii) removing unreacted monomers from the reaction product from step ii);
- and
- iv) isolating the low-viscosity polyfunctional isocyanate composition.

41. (Currently Amended) A process for the preparation of a low-viscosity polyfunctional isocyanate composition containing (a) at least one isocyanate trimer containing an isocyanurate unit, or a trimer containing a biuret unit or mixtures thereof, and (b) at least one isocyanate dimer containing a uretidinedione unit, from a starting reaction medium containing at least one isocyanate monomer in which the isocyanate groups are borne by sp^3 carbon atoms, and optionally from other monomers, this process comprising the following steps:

- i) reacting the at least one isocyanate monomer in the presence of a (cyclo)trimerization catalyst under (cyclo)trimerization conditions to obtain an isocyanurate trimer reaction product;
- ii) heating the reaction product from step i) containing said trimer and unreacted isocyanate monomers, in the absence of dimerization catalyst, to a temperature of at least 80°C, and of not more than 200°C, for a period of less than 24 hours to obtain a reaction product containing (a) at least one isocyanate trimer

containing an isocyanurate unit, or a trimer containing a biuret unit or mixtures thereof, and (b) at least one isocyanate dimer containing a uretidinedione unit;

- iii) removing unreacted monomers from the reaction product from step ii);
- and
- iv) isolating the low-viscosity polyfunctional isocyanate composition.

42. (Currently Amended) A process for the preparation of a low-viscosity polyfunctional isocyanate composition containing (a) at least one isocyanate trimer containing an isocyanurate unit, or a trimer containing a biuret unit or mixtures thereof, and (b) at least one isocyanate dimer containing a uretidinedione unit, from a starting reaction medium containing at least one isocyanate monomer in which the isocyanate groups are borne by sp^3 carbon atoms, and optionally from other monomers, this process comprising the following steps:

- i) reacting the at least one isocyanate monomer in the presence of a (cyclo)trimerization catalyst under (cyclo)trimerization conditions to obtain an isocyanurate trimer reaction product;
- ii) heating the reaction product from step i) containing said trimer and unreacted isocyanate monomers, in the absence of dimerization catalyst, to a temperature of at least 120°C, and of not more than 170°C, for a period of less than 5 hours to obtain a reaction product containing (a) at least one isocyanate trimer containing an isocyanurate unit, or a trimer containing a biuret unit or mixtures thereof, and (b) at least one isocyanate dimer containing a uretidinedione unit;
- iii) removing unreacted monomers from the reaction product from step ii);
- and
- iv) isolating the low-viscosity polyfunctional isocyanate composition.

43. (Previously Presented) A process according to claim 39, wherein said isocyanate dimer is obtained by heating the reaction medium along a decreasing temperature gradient.

44. (Previously Presented) A low-viscosity polyfunctional isocyanate composition comprising at least one uretidinedione isocyanate dimer and at least

one trimer having a biuret function, wherein said biuret function containing trimer represents at least 10% by weight based on the weight of the composition and the weight ratio of true dimer units/total of isocyanate functions is $\leq 30\%$.

45. (Previously Presented) A low-viscosity polyfunctional isocyanate composition comprising at least one uretidinedione isocyanate dimer and at least one trimer having a biuret function, wherein said biuret function containing trimer represents at least 20% by weight based on the weight of the composition and the weight ratio of true dimer units/ total of isocyanate functions is $\leq 30\%$.

46. (Previously Presented) A composition comprising:

- at least one polyisocyanate composition according to claim 45; and
- a polyol.

47. (Previously Presented) A composition comprising:

- at least one polyisocyanate composition according to Claim 45; and
- an acrylate polyol which satisfies the following conditions for a dry extract:
 - Mw (weight-average molecular weight) not greater than 10,000;
 - Mn (number-average molecular weight) of not greater than 5000;
 - Mw/Mn (dispersity ratio) of not greater than 5; and
 - number of OHs/molecule of greater than or equal to 2.

48. (Previously Presented) A composition comprising:

- at least one polyisocyanate composition according to Claim 45; and
- a polyester polyol having a viscosity of not greater than 10,000 mPa.s at 25°C, and an Mw of between 250 and 8000.

49. (Previously Presented) A composition according to claim 46, containing a crosslinking catalyst, which is optionally a latent catalyst.

50 and 51. (Cancelled)